

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☒ 7. Other: See attached error report.

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY



STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/591,632C
Source: IFG/16
Date Processed by STIC: 2/7/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>09/591,632C</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u> </u> Wrapped Nucleics <u> </u> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u> </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u> </u> Misaligned Amino <u> </u> Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <u> </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <u> </u> Variable Length	Sequence(s) <u> </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u> </u> PatentIn 2.0 <u> </u> "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u> </u> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u> </u> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u> </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u> </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u> </u> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u> </u> PatentIn 2.0 <u> </u> "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u> </u> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFW16

RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

*less speeds
72 character*

3 <110> APPLICANT: Lindquist, et al.
 5 <120> TITLE OF INVENTION: RECOMBINANT PRION-LIKE GENES AND PROTEINS AND MATERIALS AND
 6 METHODS COMPRISING SAME
 8 <130> FILE REFERENCE: 30554/34978A
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/591,632C
 C--> 10 <141> CURRENT FILING DATE: 2000-06-09
 10 <150> PRIOR APPLICATION NUMBER: US 09/591,632
 11 <151> PRIOR FILING DATE: 2000-06-09
 13 <150> PRIOR APPLICATION NUMBER: US 60/138,833
 14 <151> PRIOR FILING DATE: 1999-06-09
 16 <160> NUMBER OF SEQ ID NOS: 70
 18 <170> SOFTWARE: PatentIn version 3.3

(see item 2 on

Error

summary

(sheet)

*delete -
these are
not prior
data. They
are current data.*

ERRORED SEQUENCES

429 <210> SEQ ID NO: 3
 430 <211> LENGTH: 1427
 431 <212> TYPE: DNA
 432 <213> ORGANISM: Saccharomyces cerevisiae
 434 <220> FEATURE:
 435 <221> NAME/KEY: CDS
 436 <222> LOCATION: (182)..(1246)
 438 <400> SEQUENCE: 3
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 441 tatagcactg aattgaatcg aagaggaata aagatcccc gtacgaactt ctttattttt 120
 443 agtttttcat tttttgttat tagtcatatt gttttaagct gcaaattaag ttgtacacca 180
 445 a atg atg aat aac aac ggc aac caa gtg tcg aat ctc tcc aat gcg ctc 229
 446 Met Met Asn Asn Asn Gly Asn Gln Val Ser Asn Leu Ser Asn Ala Leu
 447 1 5 10 15
 449 cgt caa gta aac ata gga aac agg aac agt aat aca acc acc gat caa 277
 450 Arg Gln Val Asn Ile Gly Asn Arg Asn Ser Asn Thr Thr Thr Asp Gln
 451 20 25 30
 453 agt aat ata aat ttt gaa ttt tca aca ggt gta aat aat aat aat aat 325
 454 Ser Asn Ile Asn Phe Glu Phe Ser Thr Gly Val Asn Asn Asn Asn Asn
 455 35 40 45
 457 aac aat agc agt agt aat aac aat aat gtt caa aac aat aac agc ggc 373
 458 Asn Asn Ser Ser Ser Asn Asn Asn Asn Val Gln Asn Asn Asn Ser Gly
 459 50 55 60
 461 cgc aat ggt agc caa aat aat gat aac gag aat aat atc aag aat acc 421
 462 Arg Asn Gly Ser Gln Asn Asp Asn Glu Asn Asn Ile Lys Asn Thr
 463 65 70 75 80
 465 tta gaa caa cat cga caa caa cag gca ttt tcg gat atg agt cac 469

**Does Not Comply
Corrected Diskette Needed**

pp 1, 3, 5-6, 7

RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

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469	gtg	gag	tat	tcc	aga	att	aca	aaa	ttt	ttt	caa	gaa	caa	cca	ctg	gag	517
470	Val	Glu	Tyr	Ser	Arg	Ile	Thr	Lys	Phe	Phe	Gln	Glu	Gln	Pro	Leu	Glu	
471				100					105					110			
473	gga	tat	acc	ctt	ttc	tct	cac	agg	tct	gcg	cct	aat	gga	ttc	aaa	gtt	565
474	Gly	Tyr	Thr	Leu	Phe	Ser	His	Arg	Ser	Ala	Pro	Asn	Gly	Phe	Lys	Val	
475				115					120					125			
477	gct	ata	gta	cta	agt	gaa	ctt	gga	ttt	cat	tat	aac	aca	atc	ttc	cta	613
478	Ala	Ile	Val	Leu	Ser	Glu	Leu	Gly	Phe	His	Tyr	Asn	Thr	Ile	Phe	Leu	
479				130					135					140			
481	gat	ttc	aat	ctt	ggc	gaa	cat	agg	gcc	ccc	gaa	ttt	gtg	tct	gtg	aac	661
482	Asp	Phe	Asn	Leu	Gly	Glu	His	Arg	Ala	Pro	Glu	Phe	Val	Ser	Val	Asn	
483	145				150					155					160		
485	cct	aat	gca	aga	gtt	cca	gct	tta	atc	gat	cat	ggt	atg	gac	aac	ttg	709
486	Pro	Asn	Ala	Arg	Val	Pro	Ala	Leu	Ile	Asp	His	Gly	Met	Asp	Asn	Leu	
487				165						170				175			
489	tct	att	tgg	gaa	tca	ggg	gcg	att	tta	tta	cat	ttg	gta	aat	aaa	tat	757
490	Ser	Ile	Trp	Glu	Ser	Gly	Ala	Ile	Leu	Leu	His	Leu	Val	Asn	Lys	Tyr	
491				180					185					190			
493	tac	aaa	gag	act	ggt	aat	cca	tta	ctc	tgg	tcc	gat	gat	tta	gct	gac	805
494	Tyr	Lys	Glu	Thr	Gly	Asn	Pro	Leu	Leu	Trp	Ser	Asp	Asp	Leu	Ala	Asp	
495				195					200					205			
497	caa	tca	caa	atc	aac	gca	tgg	ttg	ttc	ttc	caa	acg	tca	ggg	cat	gcg	853
498	Gln	Ser	Gln	Ile	Asn	Ala	Trp	Leu	Phe	Phe	Gln	Thr	Ser	Gly	His	Ala	
499				210					215					220			
501	cca	atg	att	gga	caa	gct	tta	cat	ttc	aga	tac	ttc	cat	tca	caa	aag	901
502	Pro	Met	Ile	Gly	Gln	Ala	Leu	His	Phe	Arg	Tyr	Phe	His	Ser	Gln	Lys	
503	225				230					235					240		
505	ata	gca	agt	gct	gta	gaa	aga	tat	acg	gat	gag	gtt	aga	aga	gtt	tac	949
506	Ile	Ala	Ser	Ala	Val	Glu	Arg	Tyr	Thr	Asp	Glu	Val	Arg	Arg	Val	Tyr	
507				245						250				255			
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510	Gly	Val	Val	Glu	Met	Ala	Leu	Ala	Glu	Arg	Arg	Glu	Ala	Leu	Val	Met	
511				260					265					270			
513	gaa	tta	gac	acg	gaa	aat	gcg	gct	gca	tac	tca	gct	ggt	aca	aca	cca	1045
514	Glu	Leu	Asp	Thr	Glu	Asn	Ala	Ala	Ala	Tyr	Ser	Ala	Gly	Thr	Thr	Pro	
515				275					280					285			
517	atg	tca	caa	agt	cgt	ttc	ttt	gat	tat	ccc	gta	tgg	ctt	gta	gga	gat	1093
518	Met	Ser	Gln	Ser	Arg	Phe	Phe	Asp	Tyr	Pro	Val	Trp	Leu	Val	Gly	Asp	
519				290					295					300			
521	aaa	tta	act	ata	gca	gat	ttg	gcc	ttt	gtc	cca	tgg	aat	aat	gtc	gtg	1141
522	Lys	Leu	Thr	Ile	Ala	Asp	Leu	Ala	Phe	Val	Pro	Trp	Asn	Asn	Val	Val	
523	305				310					315				320			
525	gat	aga	att	ggc	att	aat	atc	aaa	att	gaa	ttt	cca	gaa	gtt	tac	aaa	1189
526	Asp	Arg	Ile	Gly	Ile	Asn	Ile	Lys	Ile	Glu	Phe	Pro	Glu	Val	Tyr	Lys	
527				325						330				335			
529	tgg	acg	aag	cat	atg	atg	aga	aga	ccc	gcg	gtc	atc	aag	gca	ttg	cgt	1237
530	Trp	Thr	Lys	His	Met	Met	Arg	Arg	Pro	Ala	Val	Ile	Lys	Ala	Leu	Arg	

RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

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534 Gly Gly
537 agaagggttat aagggtatgt atataggcag acaaaaagga aaattaagtg caaatataaa      1346
539 caaaaatgtc atagaagtat ataatagttt tgaaatttct gttgcttcta tttattcttt      1406
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726 <212> TYPE: DNA
727 <213> ORGANISM: Artificial sequence
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730 <223> OTHER INFORMATION: CUP1 promoter
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737 acttcaccac cctttatttc aggctgatat cttagccttg ttactagtta gaaaaagaca      180
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741 gagcgatgcg tcttttcgcg tgaaccgttc cagcaaaaaa gactaccaac gcaatatgga      300
743 ttgtcagaat catataaaag aagaagcaaa taactccttg tcttgatca attgcattat      360
745 atatcttctt gttagtgcaa tatcatatag aagtcacgca aatagatatt aagaaaaaca      420
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3714 <212> TYPE: DNA
3715 <213> ORGANISM: Artificial sequence
3717 <220> FEATURE:
3718 <223> OTHER INFORMATION: Vector containing chimeric gene
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3725 atttgggaat ttactctgtg tttatttatt tttatgtttt gtatttggat tttagaaagt      180
3727 aaataaagaa ggtagaagag ttacggaatg aagaaaaaaa aataaacaac ggtttaaaaa      240
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3741 ggaaatgtgc gcggaacccc tatttgttta tttttctaaa tacattcaaa tatgtatccg      660
3743 ctcatgagac aataaccctg ataaatgctt caataatatt gaaaaggaa gagtatgagt      720
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3755 tactcaccag tcacagaaaa gcactctacg gatggcatga cagtaagaga attatgcagt      1080
3757 gctgccataa ccatgagtga taacactgcg gccaaacttac ttctgacaac gatcggagga      1140
3759 ccgaaggagc taaccgcttt tttgcacaac atgggggatc atgtaactcg ccttgatcgt      1200
3761 tgggaaccgg agctgaatga agccatacca aacgacgagc gtgacaccac gatgcctgta      1260

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RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

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3771	gggagtcagg	caactatgga	tgaacgaaat	agacagatcg	ctgagatagg	tgcctcactg	1560
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3819	tatacggtag	atttaattat	tacttcacca	ccctttatct	caggctgata	tcttagcctt	3000
3821	gttactagtt	agaaaaagac	atttttgctg	tcagtcaetg	tcaagagatt	cttttgctgg	3060
3823	catttcttct	agaagcaaaa	agagcgatgc	gtcttttccg	ctgaaccggt	ccagcaaaaa	3120
3825	agactaccaa	cgcaatatgg	attgtcagaa	tcatataaaa	gagaagcaaa	taactccttg	3180
3827	tcttgatca	attgcattat	aatatcttct	tgttagtgcg	atatcatata	gaagtcacgc	3240
3829	aaatagatat	taagaaaaac	aaactgtaca	atcaatcaat	caatcaggat	ccatggatac	3300
3831	ggataagtta	atctcagagg	ctgagcttca	tttttctcaa	ggaaaccatg	cagaagctgt	3360
3833	tgcgaaagtg	acatccgcag	ctcagtcgaa	ccccaatgac	gagcaaatgt	caactattga	3420
3835	atcattaatt	caaaaaatcg	caggatacgt	catggacaac	cgtagtgggtg	gtagtgcgcg	3480
3837	ctcgcaagat	cgtgctgctg	gtgggtgggtc	atcttttatg	aacactttta	tggcagactc	3540
3839	taagggttct	tcccaaacgc	aactaggaaa	actagctttg	ttagccacag	tgatgacaca	3600
3841	ctcatcaaaa	taaaggttct	ctaacagagg	gtttgacgta	gggactgtca	tgtcaatgct	3660
3843	aagtgggtct	ggcggcggga	gccaaagtat	gggtgcttcc	ggcctggctg	ccttggtctc	3720
3845	tcaattcttt	aagtcaggta	acaattccca	aggtcaggga	caaggtcaag	gtcaagggtca	3780
3847	aggtcaggga	caaggtcaag	gtcaagggtc	ttttactgct	ttggcgtctt	tggcttcac	3840
3849	tttcatgaat	tccaacaaca	ataatcagca	agggtcaaaa	caaagctccg	gtgggttcctc	3900
3851	ctttggagca	ctagcttcta	tggcaagttc	ttttatgcat	tccaataata	atcagaactc	3960
3853	caacaatagt	caacagggtt	ataaccaatc	ctatcaaaac	ggtaaccaaa	atagtcaggg	4020
3855	ttacaataat	caacagtacc	aagggtggcaa	cggtggttac	caacaacaac	agggacaatc	4080
3857	tggtggtgct	ttttctctcat	tggcctccat	ggctcaatct	tacttaggtg	gtggacaaac	4140
3859	tcaatccaac	caacagcaat	acaatcaaca	aggccaaaac	aaccagcagc	aataccagca	4200

RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

grow
 3861 acaaggccaa aactatcagc accaacaaca gggtcagcag cagcaacaag gccactccag 4260
 3863 ttcattctca gctttggctt ccatggcaag ttcctacctg ggcaataact ccaattcaaa 4320
 3865 ttcgagttat gggggccagc aacaggctaa tgagtatggt agaccacaac acaatggtca 4380
 3867 acaacaatct aatqagtacg gaagaccgca atacggcgga aaccagaact ccaatggaca 4440
 E--> 3869 gacgaatcc cttaatttt ctggcaactt ttctcaacag aacaataacg gcaaccagaa 4500 4499
 E--> 3871 ccgctaccgg cggatggcta gcaaggaga agaactcttc actggagttg tcccaattct 4560
 E--> 3873 tgttgaatta gatggtgatg ttaatgggca caaattttct gtcagtggag aggggtgaag 4620
 E--> 3875 tgatgcaaca tacggaaaac ttacccttaa atttatttgc actactggaa aactacctgt 4680
 E--> 3877 tccatggcca acacttgtca ctactttcac ttatggtgtt cagtgttttt caagataccc 4740
 E--> 3879 ggatcatatg aaacggcatg actttttcaa gagtgccatg cccgaagggt atgtacagga 4800
 E--> 3881 aagaactata tttttcaaag atgacgggaa ctacaagaca cgtgtggaag tcaagtttga 4860
 E--> 3883 aggtgatacc ctgtttaata gaatcgagtt aaaaggtatt gattttaaag aagatggaaa 4920
 E--> 3885 cattcttggg cacaatttgg aatacaacta taactcacac aatgtataca tcatggcaga 4980
 E--> 3887 caaacaagg aatggaatca aagctaactt caaaattaga cacaacattg aagatggaag 5040
 E--> 3889 cgttcaacta gcagaccatt atcaacaaa tactccaatt ggcgatggcc ctgtcctttt 5100
 E--> 3891 accagacaac cattacctgt ccacacaatc tgccctttcg aaagatccca acgaaaagag 5160
 E--> 3893 agacacatg gtccttcttg agtttgaac agctgtctgg attacacatg gcattggtga 5220
 E--> 3895 actatacaaa tgagagctcc aattcgccct atagtgaatc gtattacaat tcaactggccg 5280
 E--> 3897 tctgttttaca acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgca 5340
 E--> 3899 cacatccccc ttctgccagc tggcgtaata gcgaagaggc ccgacccgat cgccttccc 5400
 E--> 3901 aacagttgag cagcctgaat ggcgaatggc gcgacgcgc ctgtagcggc gcattaagcg 5460
 E--> 3903 cggcggtgtt ggtggttacg cgcagcgtga ccgctacact tgccagcgcc ctagecgccc 5520
 E--> 3905 etcctttctg tttcttccct tctcttctcg ccacgttctg cggtcttccc cgtcaagctc 5580
 E--> 3907 taaatcgggg gctcccttta gggttccgat ttagtgcttt acggcacctc gaccccaaaa 5640
 E--> 3909 aacttgatta ggggtgatgt tcacgtatgt ggcacatgcc ctgatagacg gttttctgcc 5700
 E--> 3911 ctttgacgtt ggtgtccacg ttctttaata gtggactctt gttccaaact ggaacaacac 5760
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 E--> 3915 ggttaaaaaa tgagctgatt taacaaaaat ttaacgcgaa ttttaacaaa atattaacgt 5880
 E--> 3917 ttacaatttc ctgatgcggt attttctcct tacgcactctg tgcggtatct cacaccgat 5940
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 E--> 3921 ttacttataa tacagttttt tagttttgct ggccgcatct tctcaaatat gcttcccagc 6060
 E--> 3923 ctgcttttct gtaacgttca cctctacact tagcatccct tccctttgca aatagtcctc 6120
 E--> 3925 ttccaacaat aataatgtca gatcctgtag agaccacatc atccacgggt ctatactgtt 6180
 E--> 3927 gacccaatgc gtctcccttg tcacttaaac ccacaccggg tgcataatc aaccaatcgt 6240
 E--> 3929 aaccttcate tcttccaccc atgtctcttt gagcaataaa gccgataaca aaatctttgt 6300
 E--> 3931 cgtctctctg aatgtcaaca gtacccttag tatattctcc agtagatagg gagcccttgc 6360
 E--> 3933 atgacaatcc tgctaacatc aaaaggcctc taggttctct tgttacttct tctgcgcct 6420
 E--> 3935 gcttcaaac gctaacaata cctgggcccc ccacaccgtg tgcattcgta atgtctgcc 6480
 E--> 3937 attctgctat tctgtataca ccgcagagat actgcaattt gactgtatta ccaatgtcag 6540
 E--> 3939 caaattttct gtcttcgaag agtaaaaaat tgtacttggc ggataatgcc tttagcggct 6600
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 E--> 3947 taggatgagt agcagcacgt tctttatatg tagctttcga catgatttat ctctgtttcc 6840
 E--> 3949 tgcaggtttt tgttctgtgc agttgggtta agaatactgg gcaatttcat gtttcttcaa 6900
 E--> 3951 cactacatat gcgtatatat accaatctaa gtctgtgtct cttccttctg tcttcttct 6960
 E--> 3953 gttcggagat taccgaatca aaaaaatttc aaagaaaccg aaatcaaaaa aaagaataaa 7020
 E--> 3955 aaaaaaatga tgaattgaat tgaaaagctg tggatgggtg cactctcagt acaatctgct 7080
 E--> 3957 ctgatgccgc atagttaagc cagcccgac acccgccaac acccgctgac gcgcctgac 7140

number off

RAW SEQUENCE LISTING

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

B--> 3959 gggettggtct gctcccgga tccgcttaca gacaagctgt gaccgtctcc gggagctgca
B--> 3961 tgtgtcagag gttttcaccg tcatcaccga aacgcgcga

7200
7239

hos.
off

from sequence 39

09/591,632C

7

gta aca gct gct ggg att aca cat ggc atg gat gaa cta tac aaa tga 720
Val Thr Ala Ala Gly Ile Thr His Gly Met Asp glu Leu Tyr Lys
225 230 235

(240) delete, since
no amend
sent
is shown

VERIFICATION SUMMARY

DATE: 02/07/2006

PATENT APPLICATION: US/09/591,632C

TIME: 09:01:24

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:541 M:254 E: No. of Bases conflict, LENGTH:Input:1427 Counted:1426 SEQ:3 /
L:541 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1427 Found:1426 SEQ:3 /
L:747 M:252 E: No. of Seq. differs, <211> LENGTH:Input:446 Found:445 SEQ:11 /
L:3593 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:39 /
L:3869 M:254 E: No. of Bases conflict, LENGTH:Input:4500 Counted:4499 SEQ:45 /
M:254 Repeated in SeqNo=45
L:3961 M:252 E: No. of Seq. differs, <211> LENGTH:Input:7239 Found:7238 SEQ:45 /